



SIMATIC ET 200SP,
PROFINET INTERFACE MODULE IM155-6PN STANDARD,
MAX. 32 PERIPHERY MODULES,
INCL. SERVERMODUL,
INCL. BUSADAPTER BA 2X RJ45

General information	
Product function	
I&M data	Yes
Engineering with	
STEP 7 TIA Portal configurable/integrated as of version	V11 SP2 with HSP0024 / -
STEP 7 configurable/integrated as of version	V5.5 SP3 / -
PROFINET as of GSD version/GSD revision	V2.3 / -
Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes
Mains buffering	
Mains/voltage failure buffering time	5 ms
Input current	
Current consumption, max.	450 mA
Power loss	
Power loss, typ.	1.9 W

Address area	
Address space per station	
Address space per station, max.	256 byte
Hardware configuration	
Rack	
Modules per rack, max.	32
Interfaces	
Number of PROFINET interfaces	1
1. Interface	
Interface types	
Number of ports	2
integrated switch	Yes
RJ 45 (Ethernet)	Yes ; Pre-assembled BusAdapter BA 2x RJ45
Bus adapter (PROFINET)	Yes ; Applicable BusAdapters: BA 2x RJ45, BA 2x FC
Protocols	
PROFINET IO Device	Yes
Open IE communication	Yes
Media redundancy	Yes
Interface types	
RJ 45 (Ethernet)	
10 Mbps	Yes ; for Ethernet services
100 Mbps	Yes ; PROFINET with 100 Mbit/s full duplex (100BASE-TX)
Transmission procedure	PROFINET with 100 Mbit/s full duplex (100BASE-TX)
Autonegotiation	Yes
Autocrossing	Yes
Protocols	
PROFINET IO	
PROFINET IO	Yes
PROFINET IO Device	
Services	
Open IE communication	Yes
IRT, supported	Yes ; with send cycles of between 250 µs and 4 ms in increments of 125 µs
Prioritized startup	Yes
Shared device	Yes
Open IE communication	
TCP/IP	Yes
SNMP	Yes

LLDP	Yes
Interrupts/diagnostics/status information	
Status indicator	Yes
Alarms	
Alarms	Yes
Diagnostic messages	
Diagnostic functions	Yes
Diagnostics indication LED	
RUN LED	Yes ; Green LED
ERROR LED	Yes ; Red LED
MAINT LED	Yes ; yellow LED
Monitoring the supply voltage (PWR-LED)	Yes ; Green LED
Connection display LINK TX/RX	Yes
Galvanic isolation	
between backplane bus and electronics	No
between PROFINET and all other circuits	Yes
between supply and all other circuits	Yes
Permissible potential difference	
between different circuits	75 VDC / 60 VAC
Isolation	
Isolation tested with	707 V DC between supply voltage and electronics; 1500 V AC between Ethernet and electronics
Standards, approvals, certificates	
Network loading class	3
Security level	According to Security Level 1 Test Cases V1.1.1
Ambient conditions	
Operating temperature	
horizontal installation, min.	0 °C
horizontal installation, max.	60 °C
vertical installation, min.	0 °C
vertical installation, max.	50 °C
Dimensions	
Width	50 mm
Height	117 mm
Depth	74 mm
Weights	
Weight, approx.	191 g ; IM155PN ST with BA 2x RJ45 (mounted)
Status	Jul 14, 2014